
































K-12 Earth and Space Science and Environmental Science Teacher NGSS Needs Survey





















1. What state(s) do you teach in? Mark all that apply.

		Response Percent	Response Count
AL	<input type="checkbox"/>	0.3%	3
AK	<input type="checkbox"/>	0.5%	4
AZ	<input type="checkbox"/>	1.6%	14
AR	<input type="checkbox"/>	5.6%	49
CA	<input type="checkbox"/>	6.1%	54
CO	<input type="checkbox"/>	1.4%	12
CT	<input type="checkbox"/>	1.7%	15
DE	<input type="checkbox"/>	0.2%	2
DC	<input type="checkbox"/>	0.2%	2
FL	<input type="checkbox"/>	3.5%	31
GA	<input type="checkbox"/>	2.3%	20
HI	<input type="checkbox"/>	0.6%	5
ID	<input type="checkbox"/>	0.8%	7
IL	<input type="checkbox"/>	3.9%	34
IN	<input type="checkbox"/>	1.0%	9
IA	<input type="checkbox"/>	2.2%	19
KS	<input type="checkbox"/>	1.4%	12
KY	<input type="checkbox"/>	3.2%	28
LA	<input type="checkbox"/>	1.4%	12
ME	<input type="checkbox"/>	0.5%	4

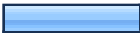











MD		2.3%	20
MA		2.4%	21
MI		8.0%	70
MN		0.9%	8
MS		0.2%	2
MO		1.8%	16
MT		0.8%	7
NE		0.7%	6
NV		1.3%	11
NH		1.1%	10
NJ		3.5%	31
NM		2.4%	21
NY		10.0%	88
NC		3.8%	33
ND		0.5%	4
OH		2.3%	20
OK		0.7%	6
OR		1.1%	10
PA		8.2%	72
RI		0.6%	5
SC		0.7%	6
SD		0.3%	3
TN		0.3%	3
TX		2.6%	23
UT		0.6%	5
VT		0.2%	2

VA		2.0%	18
WA		2.3%	20
WV		0.7%	6
WI		1.0%	9
WY		0.2%	2
AS		0.0%	0
GU		0.0%	0
MP		0.0%	0
PR		0.0%	0
VI		0.0%	0
UM		0.0%	0
Other (please specify)		1.8%	16
answered question			879
skipped question			3





2. What grade levels do you teach? Mark all that apply.

		Response Percent	Response Count
Pre-K		1.4%	12
Kindergarten		3.8%	33
1st		5.7%	50
2nd		5.5%	48
3rd		6.9%	60
4th		7.9%	69
5th		9.8%	86
6th		18.5%	162
7th		20.5%	179
8th		26.4%	231
9th		36.5%	319
10th		35.6%	311
11th		37.2%	325
12th		37.2%	325
Undergraduate		7.8%	68
Graduate		3.3%	29
Teacher Professional Development		10.8%	94
Other (please specify)		2.1%	18
answered question			874
skipped question			8







3. Please check the course titles that best match the courses you teach? Mark all that apply, and add courses if none fit your course titles.

		Response Percent	Response Count
Geology		20.3%	177
Earth Science		65.4%	572
Earth System Science		18.2%	159
Oceanography		9.0%	79
Atmospheric Science		12.2%	107
Environmental Science		29.5%	258
Environmental Science AP		8.1%	71
Biogeochemical Cycles		3.0%	26
Space Science		18.0%	157
Astronomy		19.2%	168
Planetary Science		8.4%	73
Other (please specify)		32.4%	283
answered question			874
skipped question			8





4. Has your state agreed to adopt the Next Generation Science Standards?

		Response Percent	Response Count
Yes		42.2%	369
No		8.6%	75
Don't know		39.5%	345
Other (please specify)		9.7%	85
answered question			874
skipped question			8


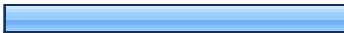



5. How did you learn about the NGSS? Mark all that apply.

		Response Percent	Response Count
Web seminars/webinars		22.0%	191
Websites		43.5%	378
I am an official reviewer		3.9%	34
email		51.5%	447
I attended one or more lectures on the NGSS		26.2%	227
Other (please specify)		19.8%	172
answered question			868
skipped question			14

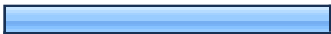



6. Have you reviewed the most recent draft of the Next Generation Science Standards?

		Response Percent	Response Count
Yes		51.0%	444
No		40.9%	356
Not sure		4.1%	36
Other (please specify)		4.0%	35
answered question			871
skipped question			11

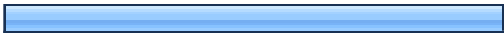



7. How would you rank your familiarity with the Next Generation Science Standards?

		Response Percent	Response Count
Very familiar - I've spent considerable time examining them		12.0%	104
Familiar - I've looked at them		51.7%	449
Have heard of them but haven't looked myself		24.9%	216
Know nothing about them		10.0%	87
Other (please specify)		1.5%	13
answered question			869
skipped question			13






8. Are you aware of the differences between the Next Generation Science Standards and the Common Core Standards?

		Response Percent	Response Count
Yes		48.8%	426
No		33.8%	295
Not sure		16.4%	143
Other (please specify)		1.0%	9
answered question			873
skipped question			9

9. Has your state agreed to adopt the Common Core Standards?

		Response Percent	Response Count
Yes		74.9%	655
No		3.9%	34
Don't know		17.6%	154
Other (please specify)		3.5%	31
answered question			874
skipped question			8





10. What do you perceive to be the challenges to transitioning to the Earth & Space Science NGSS as a teacher? Mark all that apply and add challenges if the ones provided don't match your perspectives.

		Response Percent	Response Count
district support (provide PD, curriculum time with colleagues, vertical articulation for K-12, etc)		67.1%	476
creating lesson designs to correlated to the NGSS performance expectations		62.9%	446
addition of engineering practices into current curriculums		60.2%	427
interpreting and applying NGSS based on its current format		45.3%	321
Other (please specify)		18.5%	131
answered question			709
skipped question			173

11. The NGSS exists as an integration of the 3 strands of disciplinary core ideas, cross-cutting concepts, and science and engineering practices. Please indicate the level of professional development you feel you will need in each of these three areas, as well as their integration, to ensure you are implementing the NGSS with fidelity in your classroom, using a scale from 1 to 4, where 1 is the most professional development needed and 4 is the least professional development needed.

	1	2	3	4	Rating Count
disciplinary core ideas for Earth & Space Science	19.5% (136)	19.5% (136)	27.0% (188)	34.0% (237)	697
cross-cutting concepts	26.4% (185)	35.7% (250)	28.9% (202)	9.0% (63)	700
science and engineering practices	42.4% (297)	33.0% (231)	17.1% (120)	7.6% (53)	701
integration of all 3 strands	41.9% (294)	35.1% (246)	16.7% (117)	6.3% (44)	701
answered question					708
skipped question					174










12. The NGSS exists as an integration of engineering and technology concepts into the traditional science fields. Please indicate the level of professional development you feel you need in the area of engineering and technology, using a scale from 1 to 4, where 1 is the most professional development needed and 4 is the least professional development needed.

		Response Percent	Response Count
1		41.7%	295
2		36.2%	256
3		15.0%	106
4		7.1%	50
answered question			707
skipped question			175

13. The NGSS incorporate concepts of the Nature of Science into the performance expectations. Please share your thoughts about this.

		Response Count
		460
answered question		460
skipped question		422

14. In regards to professional development for the NGSS in the areas of Earth and space science and environmental science, which of the following would you like to be included? Mark all that apply, and enter additional areas if the ones your feel are needed aren't listed.

		Response Percent	Response Count
how to interpret the NGSS format		46.5%	328
building formative and summative assessments that mirror the expectations of the NGSS		72.7%	513
identification of effective Earth & Space Science resources that integrate all 3 strands of the NGSS		71.7%	506
how to incorporate modelling and argumentation strategies in lessons		59.5%	420
how to incorporate grade-level appropriate data, datatools, and data analysis into lessons		64.7%	457
how to build capacity across your school and district to ensure consistent and effective		47.0%	332
implementation of the NGSS in a K-12 setting		47.2%	333
assistance with the development of a pacing guide for an NGSS-focused Earth & space science course		53.4%	377
Other (please specify)		6.2%	44
answered question			706
skipped question			176

15. The NGSS call for reducing the breadth of material covered in courses to allow for integration of STEM process skills and a focus on using data and applying engineering practices. Please share your thoughts about this approach and its application in your classroom(s), school, and district.

**Response
Count**

494

answered question

494

skipped question

388

16. Standardized testing is having an increasing role in the K-12 science classroom, as well as teacher evaluation. Please share your thoughts about possible changes in state testing as a result of implementation of the NGSS.

**Response
Count**

498






answered question

498




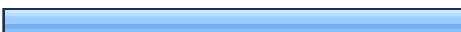

skipped question

384

17. What aspects of the move to NGSS are you most excited about? Mark all that apply.

		Response Percent	Response Count
the performance expectations are more concise		40.3%	274
the NGSS are supported by research		33.8%	230
the writing team addressed all the comments from reviewers		8.7%	59
Earth & space science is playing a prominent role in K-12 science education		67.8%	461
Other (please specify)		17.6%	120
		answered question	680
		skipped question	202




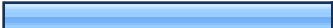


18. What aspects of the move to NGSS are you most concerned about? Mark all that apply.

		Response Percent	Response Count
high school Earth & space science will be artificially folded into biology, chemistry, and physics courses		41.4%	287
these standards are very different from our current standards		18.6%	129
not enough time to transition to the NGSS so that they are implemented with fidelity		51.2%	355
how my state will regard the NGSS in student testing and teacher evaluations		68.8%	477
Other (please specify)		15.2%	105
answered question			693
skipped question			189

19. The NGSS call for roughly a year of Earth and space science in high school, as well as in middle school. How would an increased component of high school Earth and space science best be incorporated into your high school curriculum?

	Response Count
	463
answered question	463
skipped question	419

20. What role, if any, would you like the National Earth Science Teachers Association to play at the state and regional levels as NGSS moves toward implementation? Mark all that apply.

		Response Percent	Response Count
provide professional development workshops – electronically or face-to-face		83.1%	566
assistance in the identification of classroom resources related to the NGSS		71.4%	486
communication from state Department of Education about for NGSS will be used by the states		43.6%	297
local and regional support for K-5 teachers		49.2%	335
assist with integration of Earth, space science and environmental science content into other science courses		56.8%	387
Other (please specify)		8.1%	55
answered question			681
skipped question			201

21. Please provide any other comments you would like to share that can help us decide on next steps for NESTA associated with the NGSS.

	Response Count
	143
answered question	143
skipped question	739